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(54) METHOD FOR OPTICAL FIBER TRANSMISSION, OPTICAL DEVICE AND SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To extend a transmission available distance in a method for optical fiber transmission, an optical device and a system.

SOLUTION: In the method for optical fiber transmission to extend a transmission distance, first a 1st optical fiber 4 with dispersion is provided. Then an optical signal is supplied to the 1st optical fiber so that the optical signal is compressed on a time base as the optical signal is being propagated through the 1st optical fiber 4. For example, in the case that the dispersion is normal, pre-chirping is applied to the optical signal to provide down-chirp. Then the compressed optical signal outputted from the 1st optical fiber 4 is fed to the optical device 6 with a saturation gain. According to this method, the effective combination between the compressed optical signal and waveform shaping by the optical device can extend the transmission distance.



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